



Michigan Flu Focus

Weekly Influenza Surveillance Report

May 20, 2022

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Week Ending May 14, 2022 | WEEK 19

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Data provided in this report are preliminary and will be updated as additional data is received

Updates of Interest

Nationally, seasonal influenza viruses continue to circulate with activity increasing in parts of the country. The percentage of outpatient visits due to respiratory illness remained stable nationally and, while trending upward, remains below baseline.

Please see the following link to CDC's FluView report for more details: <https://www.cdc.gov/flu/weekly/>

Seasonal Flu Vaccination Coverage

Michigan's goal is to vaccinate **4 million** residents during the 2021-2022 flu season.

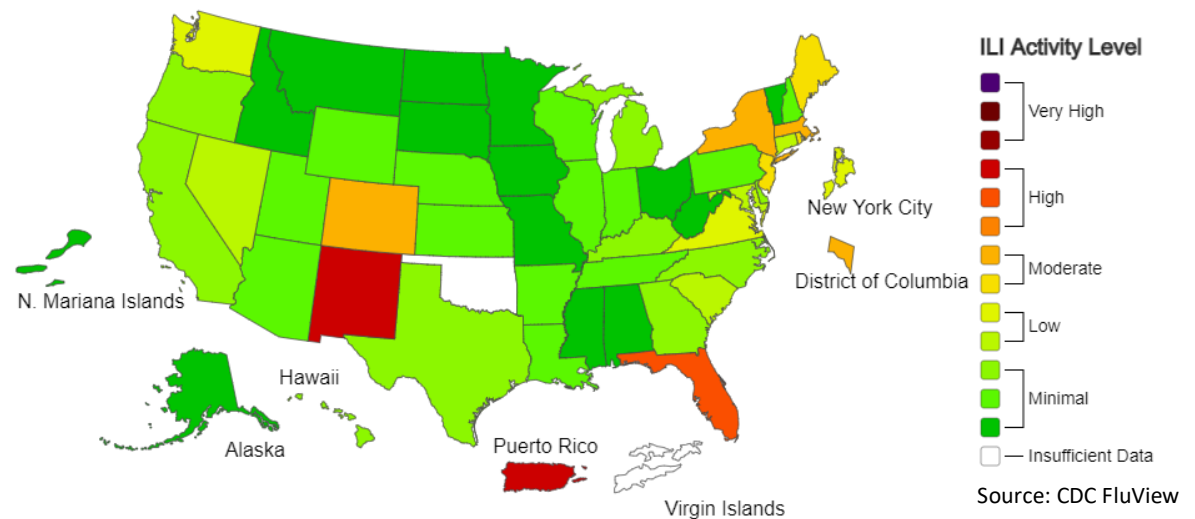
As of **April 30, 2022** there have been **3,306,199** doses administered (**82.7%** towards goal) for the 2021-2022 flu season.

Please visit the Flu Vaccination Dashboard at www.michigan.gov/flu for more info.

Outpatient Respiratory Illness Activity Map Determined by Data Reported to ILINet

This system monitors visits for respiratory illness that includes fever plus a cough or sore throat, also referred to as ILI, not laboratory confirmed influenza and may capture patient visits due to other respiratory pathogens that cause similar symptoms.

2021-22 Influenza Season Week 19 ending May 14, 2022



Note: This map represents U.S. ILI activity levels reported to ILINet. The display used in past seasons showing Geographic spread of influenza has been suspended for the 2021-2022 influenza season

Influenza-associated Pediatric Mortality

Nationally, 24 influenza-associated pediatric deaths have been reported thus far for the 2021-2022 flu season.

One (1) pediatric death (A/H3 virus) has been confirmed by MDHHS for the 2021-2022 flu season to date.

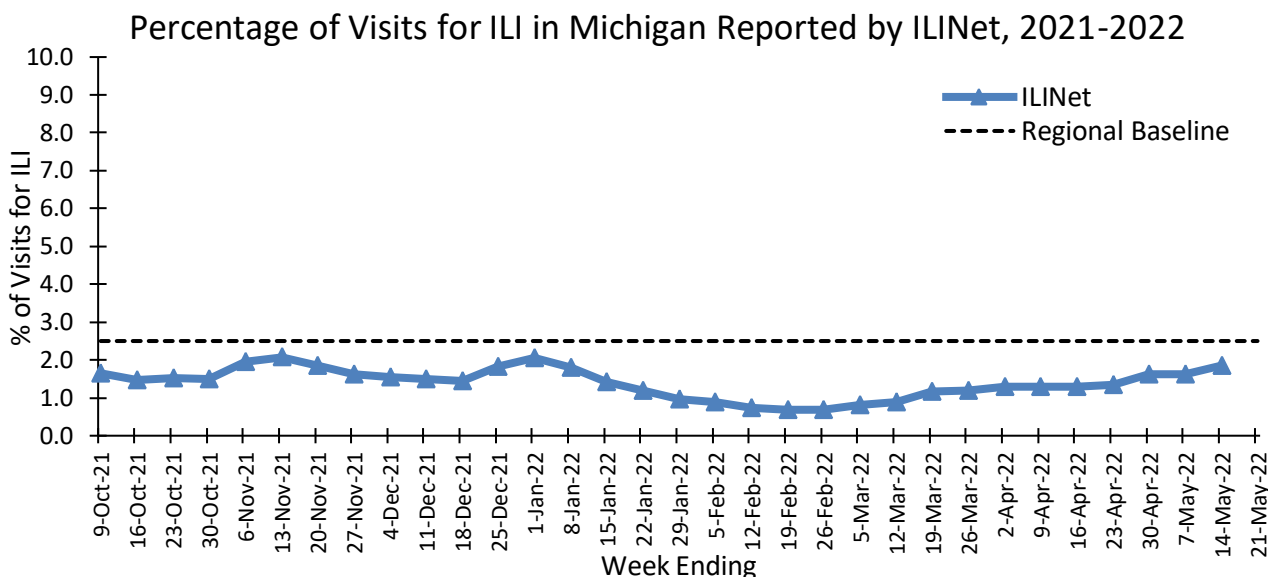
U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet)

Michigan participates in ILINet, a collaborative effort between the CDC, state and local health departments, and volunteer sentinel clinicians as part of Michigan's influenza surveillance. ILINet provides data on the total number of outpatient visits to health care providers seen for any reason and the number of those patients with influenza-like illness (ILI[‡]). Participating Michigan emergency department and urgent care facilities send syndromic data voluntarily in near real-time to the Electronic Surveillance System for the Early Notification of Community Based Epidemics (ESSENCE). Discharge diagnosis and chief complaint data elements are used to determine whether visits meet the ILI case definition. One-hundred and forty-one (141) Michigan facilities contributing data to ESSENCE were validated and enrolled in ILINet for the 2021-2022 flu season.

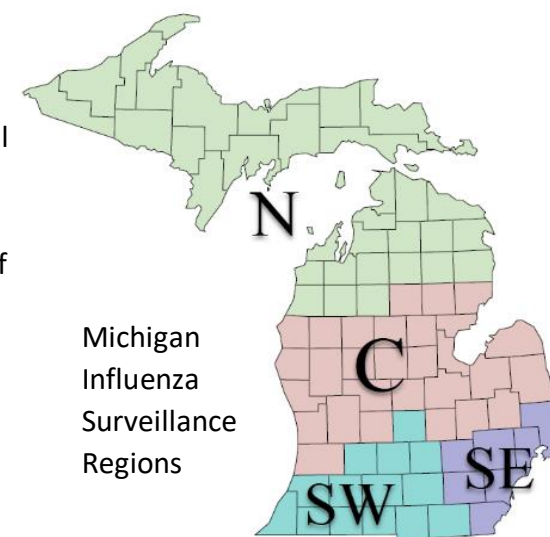
[‡]ILI is defined as fever (>100°F) and a cough and/or a sore throat (new definition for the 2021-2022 season).

Number of Reports and ILI % by Region during this time period:

Region	C	N	SE	SW
No. of Reporters (151)	51	18	54	28
ILI %	1.0	1.0	2.7	0.9



Note: ILINet monitors visits for ILI (fever and cough and/or sore throat) and may capture patient visits due to other respiratory pathogens that cause similar symptoms.



Michigan ILI Activity: **1.8%**

(Last week: 1.6%)

Regional Baseline*: 2.5%

A total of 1,517 patient visits due to ILI were reported out of 82,297 outpatient visits for Week 19.

*Regional baseline is determined by calculating the mean percentage of patient visits due to ILI during non-influenza weeks for the previous three seasons and adding two standard deviations.

National Surveillance

In the United States, **2.4%** of outpatient visits were due to ILI (Last week: 2.3%)

This is **below** the national baseline of 2.5%

Become an ILINET provider!

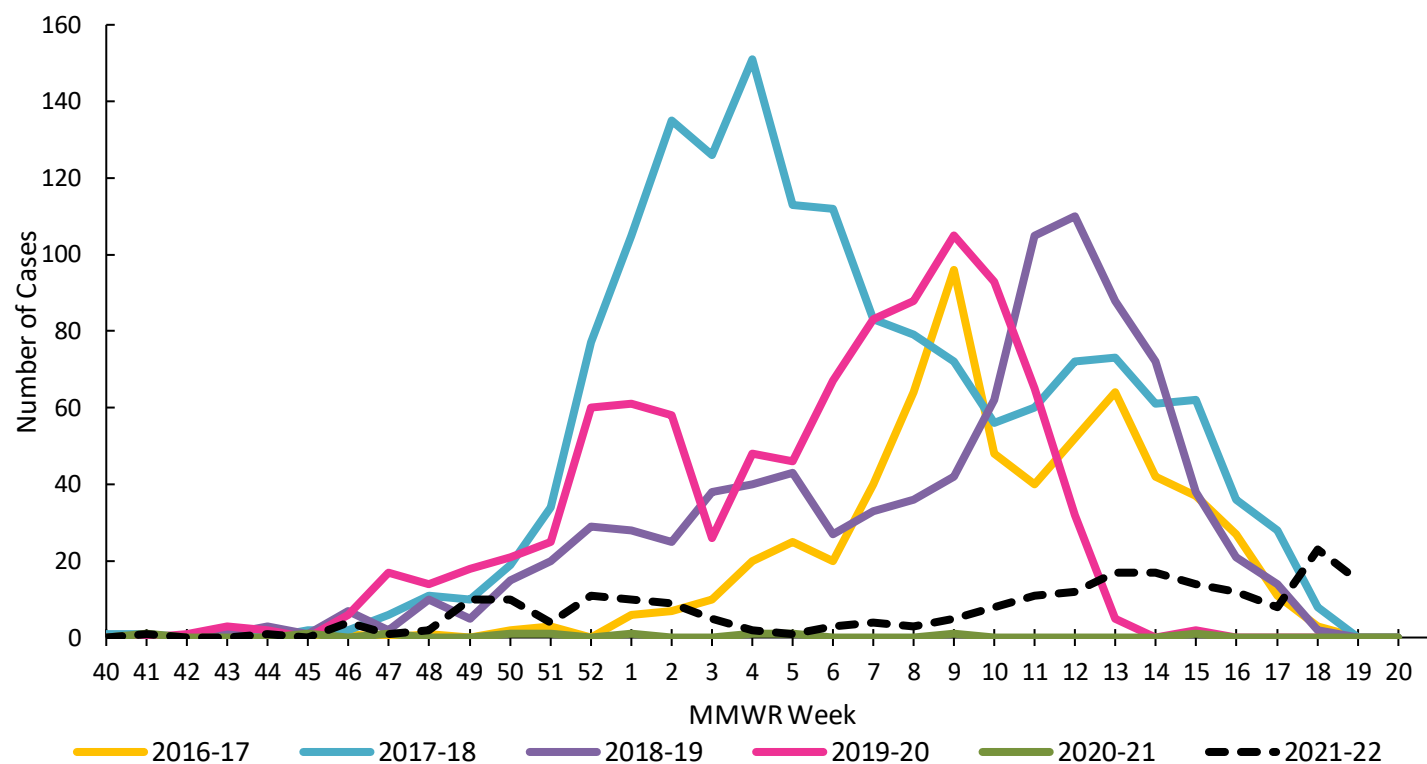
Contact Shelly Doeblar at DoeblarM@michigan.gov

Influenza Hospitalization Surveillance Project (IHSP)

The CDC's Influenza Hospitalization Surveillance Network (FluSurv-NET) provides population-based rates of laboratory-confirmed influenza-associated hospitalizations from October 1st through April 30th each year. Michigan participates as an IHSP state in FluSurv-NET for Clinton, Eaton, Genesee, Ingham, and Washtenaw Counties.

There were 15 (4 pediatric, 11 adult) influenza-associated hospitalizations reported to MDHHS for the IHSP during this time period. Since October 1st, 223 (50 pediatric, 173 adult) influenza-associated hospitalizations were reported in the catchment area for the 2021-2022 season.

IHSP Cases, 2016-2017 through 2021-2022



Washtenaw County was added in the 2017-2018 season

Join the Influenza Sentinel Hospital Network (ISHN)!

What is it? ISHN is a group of hospitals in Michigan that voluntarily report weekly aggregate counts of influenza positive inpatients to assist MDHHS with statewide influenza surveillance.

How it works: As a participating hospital in the ISHN, you would complete a brief Survey Monkey every week containing:

- Number of hospitalizations with a positive influenza test by age group during that time period
- The total number of hospitalizations due to any condition during that time period (if available)

The data you provide will assist public health in recognizing changes in the age or geographic distribution of influenza in this population.

If your facility is interested in participating or would like more information, please contact Sue Kim (KimS2@michigan.gov)

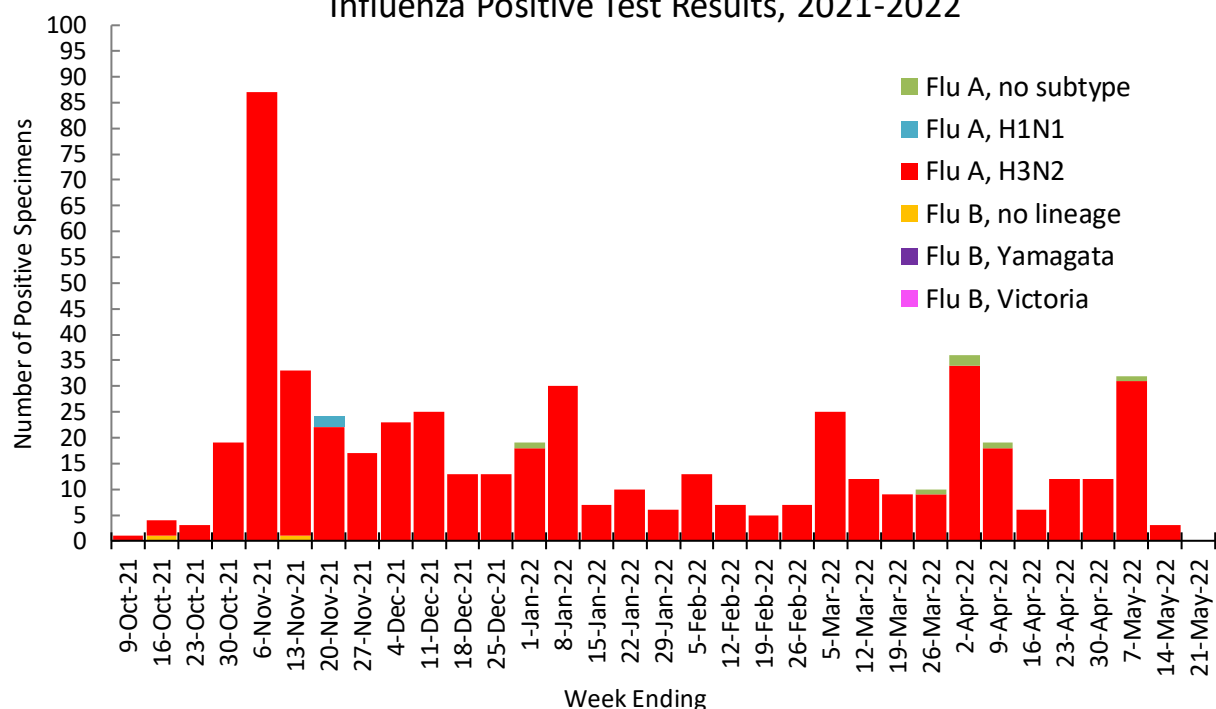
MDHHS BOL Virology Laboratory Data

There were 3 (3C, 0N, 0SE, 0SW) positive influenza results reported by the MDHHS Bureau of Laboratories (BOL) during this time period. Positive flu results for the 2021-2022 season are summarized below.

of Positive Influenza Virus Results by Region

	C	N	SE	SW	Total
H1N1	0	0	2	0	2
H3N2	170	22	227	113	532
Infl B	0	0	2	0	2
Total	170	22	231	113	536

Influenza Positive Test Results, 2021-2022



Note: Based on Specimen Collection Date. Flu B lineage data will be reported based on MDHHS BOL testing runs and will be backtracked into this graph

Michigan Sentinel Clinical Lab Network Respiratory Virus Data

Nine (9) sentinel clinical labs (2SE, 1SW, 5C, 1N) reported for the week ending 05/14/2022

SE Region	
Influenza A:	moderate
Influenza B:	sporadic – low
Parainfluenza:	slightly elevated
RSV:	slightly elevated
Adenovirus:	low
hMPV:	elevated
Central Region	
Influenza A:	elevated
Influenza B:	sporadic – low
Parainfluenza:	low
RSV:	sporadic – low
Adenovirus:	low
hMPV:	low – slightly elevated
SW Region	
Influenza A:	elevated
Influenza B:	no activity
Parainfluenza:	sporadic
RSV:	low
Adenovirus:	sporadic
hMPV:	low
North Region	
Influenza A:	low
Influenza B:	sporadic – low
Parainfluenza:	sporadic
RSV:	sporadic
Adenovirus:	no activity
hMPV:	low

Congregate Setting Outbreaks

Week Ending May 14, 2022

There was 1 (0C, 0N, 1SE, 0SW) influenza outbreak reported to MDHHS during this time period. Influenza outbreaks for the 2021-2022 season are summarized below.

of Influenza Outbreaks by MI Region

Facility Type	C	N	SE	SW	Total
Schools: K-12 & College	4	2	4	2	12
Long-term Care / Assisted Living Facility	11	2	3	3	19
Healthcare Facility	0	0	0	0	0
Daycare	0	0	0	0	0
Homeless Shelter	0	0	0	0	0
Correctional Facility	1	0	0	0	1
Other	1	0	0	0	1
Total	17	4	7	5	33

Did you know?

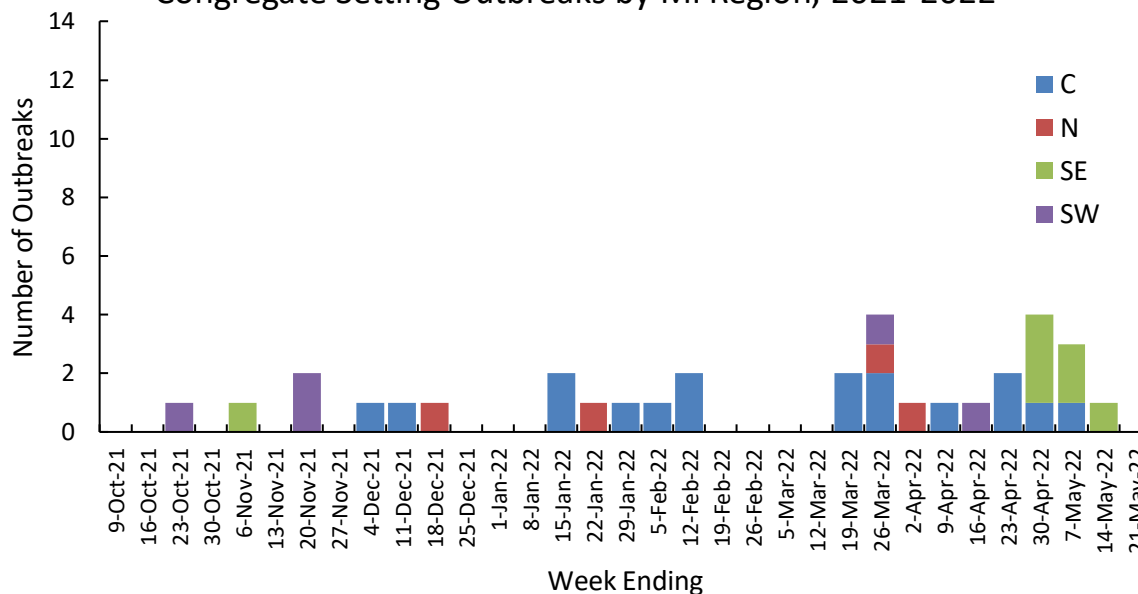
Congregate setting outbreaks of viral respiratory illness are required to be reported to your local health department? See:

- Influenza Guidance for Healthcare Providers
- Guideline for influenza and Respiratory Virus Outbreaks in Long-Term Care Facilities

Note: Data are reported on laboratory confirmed influenza outbreaks. For information on outbreaks exclusively associated with COVID-19, please visit the MDHHS Covid-19 webpage located under Additional Resources on the last page. Non-flu, non-COVID outbreaks and ILI outbreaks without confirmatory flu testing are not reported in the table and graph.

Mixed outbreaks with confirmed flu (including COVID) will be included in the table and graph. There were 0 mixed outbreaks reported during Week 19.

Congregate Setting Outbreaks by MI Region, 2021-2022



Influenza Vaccination Update

On April 9, 2022, Centers for Disease Control and Prevention (CDC) updated Key Points on the [Weekly National Flu Vaccination Dashboard](#).

During the 2021-2022 influenza season, the United States saw a decrease in the number of flu vaccine doses administered compared with the 2020-2021 season. As of February 25, 2022, 174.7 million doses of flu vaccine have been administered compared to 195.3 million doses as of February 26, 2021.

Flu vaccination coverage for children 6 months to 17 years in the United States has decreased by 2.0 percentage points as of April 9, 2022, compared with the 2020-2021 season, reported on April 10, 2021 (55.3% compared to 57.3%) and is 6.9 percentage points lower compared with the pre-pandemic 2019-2020 season, reported on April 11, 2020 (62.2%) for all race and ethnicity groups. The largest disparity during the 2021-2022 season continues to be seen among non-Hispanic Black children compared with non-Hispanic White children, down 8.1 percent points (47.0% compared to 55.1%).

Flu vaccination rates for pregnant persons 18-49 years in the United States have decreased by 9.5 percentage points as of March 2022, compared with the end of March 2021 (51.8% compared to 61.3%) and are 13.7 percentage points lower compared with the end of March 2020 (65%). The largest disparity is seen among non-Hispanic Black pregnant persons by 21.9 percentage points compared with non-Hispanic White pregnant persons (30.4% compared to 52.3%).

Children and pregnant persons are at an increased risk for influenza-related complications and should be vaccinated every flu season. Flu vaccines are widely available. Individuals can find a local vaccination location at: <https://www.vaccines.gov/>.

Influenza News Blast

- [Researchers getting closer to a “universal” flu vaccine](#)
- [STUDY: Vaccine Effectiveness Against Life-Threatening Influenza Illness in Children](#)
- [STUDY: Comparison between Patients Hospitalized with Influenza and COVID-19 at a Tertiary Care Center](#)
- [Flu Disparities Among Racial and Ethnic Minority Groups](#)
- [World Health Organization \(WHO\) Influenza Update](#)
- [Mandatory Influenza Vaccination for Healthcare Personnel Honor Roll](#)

Additional Resources

- [MDHHS Influenza Webpage](#)
- [MDHHS Bureau of Laboratories \(BOL\) Webpage and Test Request Forms](#)
- [Influenza Surveillance in Michigan](#)
- [Immunization Action Coalition: Ask the Experts - Flu](#)
- [CDC Healthcare Professionals Flu Toolkit](#)
- [CDC FluView Weekly Report](#)

View Michigan Flu Focus Report archives [here](#).

Influenza Burden Estimates

Centers for Disease Control and Prevention (CDC) have released [preliminary in-season burden estimates](#) for the 2021-2022 flu season.

CDC estimates that, from **October 1, 2021 through May 14, 2022** there have been:

- **6.7 million – 11 million** flu illnesses
- **3.2 million – 5.1 million** flu medical visits
- **69,000 – 140,000** flu hospitalizations
- **4,200 – 13,000** flu deaths

Note: CDC was not able to calculate the cumulative burden of flu for the 2020-2021 flu season, due to historically low numbers of flu.

More information on the 2020-2021 flu season burden estimates is available [here](#).

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